## Index of Claims

| Application/Control No. | Applicant(s)/Patent under<br>Reexamination |
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| 09/965,423              | RIHAN ET AL.                               |
| Examiner                | Art Unit                                   |

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Helen L. Pezzuto

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|----------|----------|----------|----------|-----|----------|---------|---|---------|----------|---------|---|----------|---------------|----------|----------|----------|----|----------|---|---|----------|----------|----|---------------|------------|----------|----------|------------|---------------|------------|---------------|---------------|---------|----|
| - 01     | aim      |          |          |     |          | Dat     | _ |         | Ξ        |         | 1 |          | aim           |          |          |          | Ξ, |          | _ |   |          | _        |    |               | aim        | _        |          |            | _             | ate        |               |               |         | _  |
| CI       | aim      | $\vdash$ |          | -   | _        | Dat     | e | _       | _        | _       | 1 |          | $\overline{}$ | ⊢        | _        | _        | _  | Date     | - | _ | _        | $\dashv$ |    | U             |            | Н        |          | _          | - 0.          | ate        | _             | _             | _       | -  |
| Final    | Original | 8/18/08  |          |     |          |         |   |         |          |         |   | Final    | Original      |          |          |          |    |          |   |   |          |          |    | Final         | Original   |          |          |            |               |            |               |               |         |    |
| 1        | 1        | =        | Н        |     | Н        | t       | t | t       | t        | T       | i |          | 51            | Н        |          | Н        |    |          |   |   |          | Н        |    |               | 101        | П        | Ħ        | 7          | $\top$        | 7          | $\forall$     | $^{\dagger}$  | $^{+}$  | 1  |
| 2        | 2        | =        |          |     |          |         |   |         |          |         | ] |          | 52            |          |          |          |    |          |   |   |          |          |    |               | 102        |          |          |            | $\Box$        | $\Box$     |               | $\Box$        |         |    |
| 3        | 3        | =        |          |     |          |         |   |         |          |         | ] |          | 53            |          |          |          |    |          |   |   |          |          |    |               | 103        |          |          |            |               |            |               |               |         |    |
|          | 4        |          |          |     |          | $\perp$ |   |         |          |         | ] |          | 54            |          |          |          |    |          |   |   |          |          |    |               | 104        |          |          | $\Box$     | $\Box$        | $\Box$     | $\Box$        | $\perp$       | $\perp$ |    |
| 4        | 5        | =        | Ш        |     | ╙        | ╙       | ╙ | $\perp$ | ╙        |         | Į |          | 55            |          |          |          |    |          |   |   |          |          |    | _             | 105        |          | $\perp$  | _          | 4             | 4          | 4             | 4             | 4       |    |
| 5        | 6        | =        |          |     | ╙        | ╙       | ╙ | ╙       | ╙        |         | Į |          | 56            |          |          |          |    |          |   |   |          | Щ        |    |               | 106        |          |          |            | _             | _          | 4             |               | $\perp$ |    |
| 6        | 7        | =        |          |     | ╙        | -       | ╄ | ╄       | ╙        | _       | Į |          | 57            |          |          |          |    |          |   |   |          | Щ        |    | _             | 107        |          | $\perp$  | _          | 4             | 4          | 4             | 4             | +       | _  |
| 7        | 8        | =        | Ш        |     | ╙        | ╄       | ╄ | ╄       | ╙        | $\perp$ | Į | _        | 58            | _        |          | $\perp$  |    |          |   |   |          | Щ        |    | $\vdash$      | 108        |          | $\perp$  | _          | $\rightarrow$ | 4          | 4             | _             | $\perp$ |    |
| 8        | 9        | =        | Ш        |     | ┡        | $\perp$ | ╀ | $\perp$ | ╙        | _       | Į | _        | 59            | _        | _        |          |    |          |   |   |          | Щ        |    | $\vdash$      | 109        | Ш        | $\perp$  | 4          | _             | 4          | $\dashv$      | 4             | _       | _  |
| 9        | 10       | =        | Н        |     | L        | +       | 1 | +       | ⊢        | +       | 1 | $\vdash$ | 60            | ⊢        | _        | <b>—</b> | Н  | _        | Ш |   | <b>L</b> | Н        |    | $\vdash$      | 110        | Н        | $\vdash$ | 4          | 4             | 4          | 4             | $^{+}$        | +       | _  |
| 10       | 11       | =        | $\vdash$ |     | $\vdash$ | +       | ╀ | +       | $\vdash$ | +       | 1 | $\vdash$ | 61            | $\vdash$ | ⊢        | $\vdash$ | Н  | $\vdash$ | Н |   | $\vdash$ | Н        |    | $\vdash$      | 111        | Н        | $\vdash$ | 4          | +             | 4          | $\rightarrow$ | +             | +       | 4  |
| 11       | 12       |          | $\vdash$ |     | $\vdash$ | +       | + | +       | $\vdash$ | +       | 1 | $\vdash$ | 62            | $\vdash$ | $\vdash$ | $\vdash$ | Н  | $\vdash$ | Н |   | H        | Н        |    | $\vdash$      | 112        | Н        | +        | +          | +             | +          | +             | +             | +       | _  |
| 12<br>13 | 13       | =        | Н        |     | ⊢        | +       | + | +       | $\vdash$ | +       | 1 | $\vdash$ | 63            | ⊢        | +        | ⊢        | Н  | -        | Н |   | -        | Н        |    | $\vdash$      | 113        | Н        | $\vdash$ | +          | -             | +          | $\dashv$      | +             | +       | _  |
|          |          | =        | Н        |     | ⊢        | +       | ⊢ | +       | ⊢        | ⊢       | 1 | $\vdash$ | 65            | -        | $\vdash$ | H        |    | _        |   |   | _        | Н        |    | $\vdash$      |            | Н        | +        | +          | +             | +          | $\dashv$      | +             | +       | _  |
| 14<br>15 | 15<br>16 | -        | $\vdash$ | _   | ⊢        | +       | + | +       | $\vdash$ | ⊢       | 1 | $\vdash$ | 66            | ⊢        | $\vdash$ | Н        | -  | -        | - |   | _        | Н        |    | -             | 115<br>116 |          | +        | $\dashv$   | $\rightarrow$ | $\dashv$   | +             | +             | +       | -  |
| 16       | 17       | =        | Н        | _   | ⊢        | +       | + | +       | ⊢        | +       | 1 | -        | 67            | $\vdash$ | $\vdash$ | Н        | Н  | -        | Н | _ | _        | Н        |    | $\vdash$      | 117        | Н        | +        | +          | +             | +          | +             | +             | +       | -  |
| 17       | 18       | =        | $\vdash$ | _   | Н        | +       | + | +       | +        | +       | 1 | $\vdash$ | 68            | ⊢        | $\vdash$ | Н        | Н  | -        | - | _ | _        | Н        |    | -             | 118        | Н        | +        | $\dashv$   | $\rightarrow$ | $\dashv$   | +             | +             | +       | -  |
| 18       | 19       | =        | $\vdash$ | _   | Н        | +       | + | +       | +        | +       | ł | $\vdash$ | 69            | ⊢        | $\vdash$ | Н        | Н  | _        | _ |   | _        | Н        |    | -             | 119        |          | +        | $\dashv$   | -             | $\dashv$   | +             | +             | +       | -  |
| 19       | 20       | =        | $\vdash$ | _   | $\vdash$ | +       | + | +       | +        | +       | 1 | $\vdash$ | 70            | $\vdash$ | $\vdash$ | Н        | _  | -        | _ | _ | _        | Н        |    | $\vdash$      | 120        | $\vdash$ | +        | $\dashv$   | $\rightarrow$ | $\dashv$   | +             | +             | +       | -  |
| 20       | 21       | =        | Н        | -   | ⊢        | +       | + | +       | +        | +       | 1 | $\vdash$ | 71            | $\vdash$ | $\vdash$ | Н        | Н  | -        | - | _ | _        | Н        |    | $\vdash$      | 121        | Н        | +        | $\dashv$   | +             | +          | +             | +             | +       | -  |
| 21       | 22       | =        | $\vdash$ | -   | $\vdash$ | +       | + | +       | +        | +       | 1 | -        | 72            | Н        | $\vdash$ | Н        | -  | -        | _ | _ | _        | Н        |    | -             | 122        | $\vdash$ | +        | -          | $\rightarrow$ | $\dashv$   | $\dashv$      | +             | +       | -  |
| 22       | 23       | =        | $\vdash$ | _   | $\vdash$ | +       | + | +       | +        | +       | 1 | -        | 73            | $\vdash$ | $\vdash$ | Н        | -  | _        | _ | _ | _        | Н        |    | -             | 123        | $\vdash$ | +        | $\dashv$   | $\rightarrow$ | $\dashv$   | +             | +             | +       | -  |
| 23       | 24       | =        | $\vdash$ | _   | $\vdash$ | +       | + | +       | +        | +       | 1 |          | 74            | $\vdash$ | $\vdash$ | Н        | -  |          |   | _ | _        | $\vdash$ |    | $\vdash$      | 124        | Н        | +        | $\dashv$   | +             | $\dashv$   | $\dashv$      | +             | +       | -  |
| 24       | 25       | =        | Н        | -   | $\vdash$ | +       | + | +       | +        | +       | 1 | _        | 75            | $\vdash$ | $\vdash$ | Н        | Н  | -        | - | _ | _        | Н        |    | $\vdash$      | 125        | Н        | +        | $\dashv$   | +             | $\dashv$   | $\dashv$      | +             | +       | -  |
| 6.7      | 26       | -        | $\vdash$ | _   | -        | +       | + | +       | +        | +       | 1 | -        | 76            | $\vdash$ | $\vdash$ | Н        | -  | _        |   | _ | _        | Н        |    | -             | 126        | $\vdash$ | +        | $\dashv$   | $\rightarrow$ | $\dashv$   | $\dashv$      | $\rightarrow$ | +       | -  |
|          | 27       | $\vdash$ | Н        |     | Н        | +       | + | +       | +        | +       | 1 |          | 77            | $\vdash$ | $\vdash$ | Н        | Н  |          | Н | _ |          | Н        |    | -             | 127        | Н        | $\perp$  | $\dashv$   | +             | +          | $\dashv$      | $^{+}$        | +       | -  |
|          | 28       |          | Н        |     | Н        | +       | + | +       | Н        | +       | 1 | $\vdash$ | 78            | Н        | $\vdash$ | Н        | Н  |          | Н |   |          | Н        |    | -             | 128        | Н        |          | $\dashv$   | +             | +          | $\dashv$      | $^{+}$        | +       | -  |
|          | 29       |          | Н        |     | Н        | $^{+}$  | т | $^{+}$  | Н        | H       | 1 |          | 79            | Н        |          | Н        | Н  |          | т |   | _        | Н        |    | -             | 129        |          | $\vdash$ |            | _             | 7          | $\dashv$      | $^{+}$        | +       | -  |
|          | 30       |          | Н        |     | Н        | +       | + | $^{+}$  | $\vdash$ | H       | 1 |          | 80            | Н        |          | Н        | Н  |          |   | _ | _        | Н        |    | -             | 130        | Н        | $\vdash$ | $\dashv$   | $\pm$         | 7          | $\dashv$      | $^{+}$        | +       | -  |
|          | 31       |          |          |     |          | t       | т | t       | т        | t       | 1 |          | 81            |          |          | Н        |    |          |   |   |          | П        |    | -             | 131        |          |          |            |               | 7          | $\neg$        | _             | $\top$  | -  |
|          | 32       |          | П        |     | Н        | t       | Т | t       |          | t       | 1 |          | 82            |          |          | П        |    |          |   |   |          | П        |    |               | 132        |          |          |            |               | T          | $\neg$        | +             | $\top$  | _  |
|          | 33       |          | П        |     |          | Т       |   | Т       |          |         | 1 |          | 83            | Т        |          | П        |    |          |   |   |          | П        |    |               | 133        |          |          |            |               | $\neg$     | $\neg$        |               |         | _  |
|          | 34       |          |          |     |          | Т       | T | Т       |          |         | 1 |          | 84            | Т        |          | П        |    |          |   |   |          | П        |    | $\overline{}$ | 134        |          |          | $\neg$     |               | ┪          | $\neg$        | $\top$        | $\top$  | _  |
|          | 35       | Г        | П        |     | П        | т       | т | Т       | Т        | Т       | 1 |          | 85            | П        |          | П        |    |          |   |   |          | П        |    |               | 135        |          |          | $\neg$     |               | ╗          | 寸             |               | $\top$  | _  |
|          | 36       |          | П        |     |          | Т       | Т | Т       | Т        |         | 1 |          | 86            |          |          |          |    |          |   |   |          |          |    |               | 136        |          |          |            |               | П          | $\neg$        |               |         | _  |
|          | 37       | П        | П        |     | Г        | Т       | Т | Т       | Т        | Т       | 1 |          | 87            |          |          |          |    |          |   |   |          |          |    |               | 137        |          |          | ╗          | $\neg$        | T          | $\neg$        | Т             | $\top$  | _  |
|          | 38       | П        | П        |     | П        | Т       | Т | Т       | П        | Г       | 1 |          | 88            | Г        | П        | П        |    |          |   |   |          | П        |    |               | 138        |          |          | ╗          | $\neg$        | ╗          | Т             | П             | Т       | ī  |
|          | 39       |          |          |     |          |         |   |         |          |         | ] |          | 89            |          |          |          |    |          |   |   |          |          |    |               | 139        |          |          |            | $\Box$        | ╛          | $\Box$        |               |         | Ξ  |
|          | 40       |          |          |     |          | П       | П | П       |          | Г       | ] |          | 90            |          |          |          |    |          |   |   |          |          |    |               | 140        |          |          |            |               | П          | $\Box$        |               |         |    |
|          | 41       |          |          |     |          |         |   |         |          |         | ] |          | 91            |          |          |          |    |          |   |   |          |          |    |               | 141        |          |          |            | $\Box$        |            |               | $\Box$        |         |    |
|          | 42       |          | Ш        |     | Ľ        | $\perp$ | Γ | $\perp$ |          |         | Į |          | 92            |          |          |          |    |          |   |   |          |          |    |               | 142        |          |          | I          | $\perp$       | $_{\perp}$ |               |               | _       | 1  |
|          | 43       |          | Ш        |     | Ľ        | $\perp$ | Γ | $\perp$ |          | 1       | Į |          | 93            |          |          |          |    |          |   |   |          |          |    |               | 143        |          |          | $_{\perp}$ | $\perp$       | $_{\perp}$ |               | $\perp$       | $\perp$ | 1  |
|          | 44       | ┖        | $\Box$   |     | L        | 1       | 1 | 1       | L        | L       | Į | $\Box$   | 94            | Ľ        | L        | ╚        | Ш  |          | Ш |   |          | Ш        |    |               | 144        | ╚        |          |            | _[            |            | _[            | _[            | 1       | 1  |
|          | 45       | ┖        | $\Box$   |     | L        | ┖       | 1 | ┖       | L        | ┖       | Į | $\Box$   | 95            | Ľ        | ┖        | ╚        | Ш  |          | Ш |   |          | Ш        |    |               | 145        | ╚        |          | $\Box$     |               |            | _[            | _[            |         | ]  |
|          | 46       |          |          |     |          |         |   | $\perp$ |          |         | Į |          | 96            |          |          |          |    |          |   |   |          |          |    |               | 146        |          |          |            |               |            | $\perp$       | $\perp$       | $\perp$ |    |
|          | 47       |          |          |     | L        | 1       | 1 | 1       |          | 1       | Į |          | 97            | $\vdash$ | _        | $\vdash$ |    |          | Ш |   |          | Ш        |    |               | 147        | Ш        | $\perp$  | Ц          | _             | Ц          | _             | 4             | 1       | _  |
|          | 48       | _        | Ш        |     | L        | 1       | 1 | 1       |          | 1       | Į | $\vdash$ | 98            | $\vdash$ | _        | $\vdash$ | Ш  |          | Ш |   |          | Ш        |    |               | 148        | Ш        | $\perp$  | _          | 1             | 4          |               | 4             | $\perp$ | Ц  |
|          | 49       |          |          |     | L        | 1       | 1 | 1       |          | 1       | Į |          | 99            |          |          |          |    |          |   |   |          | Ш        |    | $\perp$       | 149        | Ш        |          | _          | _             | Ц          |               | 4             | $\perp$ | _  |
|          | 50       |          | ΙТ       |     | Ι.       |         | П |         | 1        |         | 1 |          | 100           |          |          | 1        | П  |          |   |   |          | П        |    |               | 150        |          | ш        | Т          | - T           | T          | - T           |               |         | -1 |